

# BPA Fast Facts

Unless otherwise noted, information is for fiscal year 2004.

## Profile

The Bonneville Power Administration is a federal agency, under the U.S. Department of Energy, that markets wholesale electrical power and operates and markets transmission services in the Pacific Northwest. The power comes from 31 federal hydro projects, one nonfederal nuclear plant and several other small nonfederal power plants. The hydro projects and the electrical system are known as the Federal Columbia River Power System. About 40 percent of the electric power used in the Northwest comes from BPA. BPA's transmission system accounts for about three-fourths of the region's high-voltage grid, and includes major transmission links with other regions.

BPA is a self-financed agency, which pays for its costs through power and transmission sales. Both power and transmission are sold at cost, and BPA repays any borrowing from the U.S. Treasury with interest.

BPA's customers include publicly owned and investor-owned utilities, as well as some large industries. BPA also sells or exchanges power with utilities in Canada and the western United States.

Revenues BPA earns help it fulfill public responsibilities that include low-cost and reliable power and investments in energy conservation and renewable resources. BPA also funds the region's efforts to protect and rebuild fish and wildlife populations in the Columbia River Basin.

## General Information

BPA established	1937
Service area size (square miles)	300,000
Pacific Northwest population	11,569,817
Transmission line (circuit miles)	15,342
BPA-owned substations	238
Employees (FTE)	3,165

## BPA service area

Oregon, Washington, Idaho, western Montana and small portions of Wyoming, Nevada, Utah, California and eastern Montana.

## BPA Customers

Cooperatives	59
Municipalities	41
Public utility districts	30
Federal agencies	7
Investor-owned utilities	6
Direct-service industries	5
Port district	1
<b>Total</b>	<b>149</b>

## Other facts

- About 70 percent of the power BPA sells is hydroelectric.
- BPA owns and operates more than three-fourths of the high-voltage transmission grid in the Pacific Northwest.
- BPA has spent more than \$7 billion to support Northwest fish and wildlife recovery which includes more than \$3.5 billion in energy purchases and loss of energy sales due to fish operations.
- Since 1981, BPA has saved over 800 average megawatts of energy through its energy conservation programs.

## BPA Rates

### Wholesale power rates <sup>1/</sup> (10/1/04-3/31/05)

Average Priority Firm (shaped, undelivered)	2.96 cents/kWh
Average Priority Firm (flat, undelivered)	2.62 cents/kWh
Residential Load (flat, undelivered)	2.62 cents/kWh
Priority Firm Exchange (flat, undelivered)	2.62 cents/kWh

<sup>1/</sup> Shaped and flat products are different. For a shaped product, BPA provides power to meet the moment-to-moment variability in load within the BPA customer's system. For a flat product, or block, there is no variation in the amount of power BPA provides to the customer. These rates do not include the cost of transmission.

### Transmission rates <sup>2/</sup> (FYs 2004-2005)

#### Network rates:

Firm	\$15.132/kW/yr
Nonfirm	.363 cents/kWh

#### Southern Intertie rates:

Firm	\$16.908/kW/yr
Nonfirm	.406 cents/kWh

<sup>2/</sup> Includes the rates for point-to-point transmission service plus the two required ancillary services. All short-term firm and nonfirm rates are downwardly flexible.

## 2004 Financial Highlights

For the Federal Columbia River Power System (\$ in thousands)

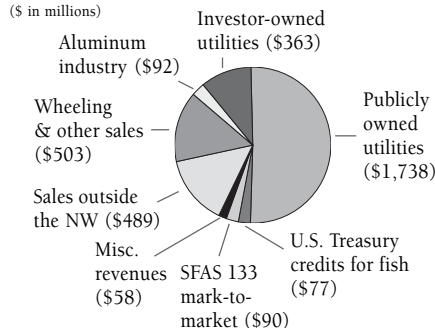
Total operating revenues	\$3,197,911
Total operating expenses	<u>2,408,645</u>
Net operating revenues	789,266
Net interest expense	<u>284,851</u>
Net revenues	\$ 504,415

SFAS 133 mark-to-market gain	\$ (89,452)
Nonfederal debt management actions	<u>(348,636)</u>
Modified net revenues	\$ 66,327 <sup>3/</sup>

<sup>3/</sup> Management has determined that modified net revenues are a better representation of the outcomes of normal operations during periods of debt management actions and fluctuations in derivative market prices. See BPA's 2004 Annual Report for more information.

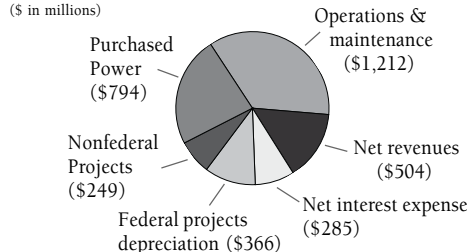
## 2004 Sources of Revenue <sup>4/</sup>

(\$ in millions)



## 2004 Disposition of Revenue <sup>4/</sup>

(\$ in millions)



<sup>4/</sup> These revenues do not reflect bookouts of \$212 million.

## Generation (CY 2004)

Average federal hydro generation	7,712 aMW
Average total generation	11,612 aMW
60-min. hydro peak generation	15,369 MW
60-min. total peak generation	19,321 MW
All-time 60-min. total peak generation record (June 2002)	19,802 MW

## Transmission System

Operating voltage	Circuit miles
1,000 kV	264 <sup>5/</sup>
500 kV	4,573
345 kV	566
287 kV	227
230 kV	5,308
161 kV	46
138 kV	50
115 kV	3,854
below 115 kV	454
<b>Total</b>	<b>15,342</b>

<sup>5/</sup> BPA's portion of the PNW/PSW direct-current intertie. The total length of this line from The Dalles, Ore., to Los Angeles is 846 miles.

## Fish & Wildlife Investments

(\$ in millions)

FY 2004

BPA F&W program expense <sup>6/</sup> (does not include \$8.5 million capital)	\$145.8
F&W expenses of other entities	57.2
Repayment for capital investments	<u>85.4</u>
Program expenses subtotal	\$288.4
Hydro operations:	
Power purchases	\$191.0
Lost opportunity costs	<u>21.7</u>
Hydro operations subtotal	<u>212.7</u>
<b>Total F&amp;W Investments for FY 2004</b>	<b>\$501.1</b>

<sup>6/</sup> Integrated program and action plan/high priority.

## Conservation

(\$ in millions)

FY 2004

Total <sup>7/</sup>

<b>Total BPA expenses</b>	<b>\$78</b>	<b>\$2,072</b>
<b>Megawatts saved:</b>		
Residential programs	9.8 aMW	230.1 aMW
Commercial programs	11.7 aMW	157.2 aMW
Industrial programs	4.9 aMW	101.3 aMW
Agricultural programs	2.7 aMW	9.4 aMW
Multi-sector programs	<u>0.2 aMW</u>	<u>104.8 aMW</u>
Programs subtotal	29.3 aMW	602.8 aMW
Improved building codes	3.9 aMW	188.5 aMW
Market transformation	<u>14.0 aMW</u>	<u>58.0 aMW</u>
<b>Total aMW saved</b>	<b>47.2 aMW</b>	<b>849.3 aMW</b>

<sup>7/</sup> Cumulative total since 1981. Adjustments to savings have been applied.



## Federal Hydro Projects

Name	River, State	In Service	Nameplate Rating
Albeni Falls	Pend Oreille, ID	1955	43 MW
Anderson Ranch	Boise, ID	1950	40 MW
Big Cliff	Santiam, OR	1953	18 MW
Black Canyon	Payette, ID	1925	10 MW
Boise River Diversion	Boise, ID	1912	3 MW
Bonneville	Columbia, OR/WA	1938	1,077 MW
Chandler	Yakima, WA	1956	12 MW
Chief Joseph	Columbia, WA	1958	2,458 MW
Cougar	McKenzie, OR	1963	25 MW
Detroit	Santiam, OR	1953	100 MW
Dexter	Willamette, OR	1954	15 MW
Dworshak	Clearwater, ID	1973	400 MW
Foster	Santiam, OR	1967	20 MW
Grand Coulee <sup>8/</sup>	Columbia, WA	1942	6,779 MW
Green Peter	Santiam, OR	1967	80 MW
Green Springs	Emigrant Crk, OR	1960	16 MW
Hills Creek	Willamette, OR	1962	30 MW
Hungry Horse	Flathead, MT	1953	428 MW
Ice Harbor	Snake, WA	1962	603 MW
John Day	Columbia, OR/WA	1971	2,160 MW
Libby	Kootenai, MT	1975	525 MW
Little Goose	Snake, WA	1970	810 MW
Lookout Point	Willamette, OR	1953	120 MW
Lost Creek	Rogue, OR	1977	49 MW
Lower Granite	Snake, WA	1975	810 MW
Lower Monumental	Snake, WA	1969	810 MW
McNary	Columbia, OR/WA	1952	980 MW
Minidoka	Snake, ID	1909	28 MW
Palisades	Snake, ID	1958	176 MW
Roza	Yakima, WA	1958	11 MW
The Dalles	Columbia, OR/WA	1957	1,808 MW
Total (31 dams)			20,444 MW

Owned and operated by the U.S. Army Corps of Engineers (21 dams)  
Owned and operated by the Bureau of Reclamation (10 dams).

8/ Includes pump generation.

## BPA Resources<sup>9/</sup>

(for OY 2005 under 1937 water conditions)

**Sustained peak capacity** (January) **16,241 MW**

hydro: 13,483 MW (83%)

nuclear: 1,150 MW (7.1%)

firm contracts & other resources: 1,608 MW (9.9%)

**Firm energy** (12-month annual avg.) **9,590 aMW**

hydro: 6,985 aMW (72.8%)

nuclear: 861 aMW (9%)

firm contracts & other resources: 1,744 aMW (18.2%)

## Regional Resources<sup>9/</sup>

(for OY 2005 under 1937 water conditions)

**Sustained peak capacity** (January) **39,075 MW**

hydro: 24,011 MW (61.4%)

coal: 5,842 MW (15%)

nuclear: 1,150 MW (2.9%)

imports: 1,168 MW (3%)

combustion turbines: 3,464 MW (8.9%)

cogeneration: 2,239 MW (5.7%)

non-utility generation: 1,079 MW (2.8%)

other miscellaneous resources: 122 MW (0.3%)

**Firm energy** (12-month annual avg.) **23,559 aMW**

hydro: 11,688 aMW (49.5%)

coal: 5,069 aMW (21.5%)

nuclear: 861 aMW (3.7%)

imports: 603 aMW (2.6%)

combustion turbines: 1,946 aMW (8.3%)

cogeneration: 1,999 aMW (8.5%)

non-utility generation: 1,296 aMW (5.5%)

other miscellaneous resources: 97 aMW (0.4%)

<sup>9/</sup> Forecast figures from BPA's 2003 *Pacific Northwest Loads & Resources Study*. The values listed have been reduced to take into account capacity and energy adjustments. Capacity adjustments include forced outage reserves, spinning reserves, hydro maintenance and transmission loss reductions. Energy adjustments include hydro maintenance and transmission losses reductions.

## BPA Vision

BPA will be an engine of the Northwest's economic prosperity and environmental sustainability. BPA's actions advance a Northwest power system that is a national leader in providing:

- High reliability;
- Low rates consistent with sound business principles;
- Responsible environmental stewardship; and
- Accountability to the region.

We deliver on these public responsibilities<sup>10/</sup> through a commercially successful business.

<sup>10/</sup> Our public responsibilities are defined by the four characteristics listed above.

## BPA Mission

The Bonneville Power Administration's mission as a public service organization is to create and deliver the best value for our customers and constituents as we act in concert with others to assure the Pacific Northwest:

- An adequate, efficient, economical and reliable power supply;
- A transmission system that is adequate to the task of integrating and transmitting power from federal and non-federal generating units, providing service to BPA's customers, providing interregional interconnections, and maintaining electrical reliability and stability; and
- Mitigation of the Federal Columbia River Power System's impacts on fish and wildlife.

BPA is committed to cost-based rates and public and regional preference in its marketing of power. BPA will set its rates as low as possible consistent with sound business principles and the full recovery of all of its costs, including timely repayment of the federal investment in the system.

## Senior Executives

Steve Wright, *Administrator*

Steve Hickok, *Deputy Administrator*

Ruth Bennett, *Chief Operating Officer*

Allen Burns, *Executive Vice President,*

*Industry Restructuring*

Terry Esvelt, *Senior Vice President,*

*Employee and Business Resources*

Vickie VanZandt, *Senior Vice President,*

*Transmission Business Line*

Paul Norman, *Senior Vice President,*

*Power Business Line*

Randy Roach, *Senior Vice President,*

*General Counsel*

## Points of Contact

### General BPA Offices & Web Sites

**BPA Headquarters** • 905 N.E. 11th Ave. • P.O. Box 3621  
• Portland, OR 97208 • (503) 230-3000  
• Web site [www.bpa.gov](http://www.bpa.gov)

**Public Information Center** • 905 N.E. 11th Ave.  
• P.O. Box 3621 • Portland, OR 97208 • (503) 230-7334  
• 1-800-622-4520

**Public Involvement** • P.O. Box 14428 • Portland, OR 97293-4428 • (503) 230-3478 • 1-800-622-4519

**Washington, D.C. Office** • Forrestal Bldg., Room 8G-061  
• 1000 Independence Ave., S.W. • Washington, DC 20585  
• (202) 586-5640

**Crime Witness Program** • 1-800-437-2744 • To report crimes to BPA property or personnel.

### Transmission Business Line Regional Offices

**TBL Headquarters** • P.O. Box 491  
• Vancouver, WA 98666-0491 • (360) 418-2000

**Eugene Regional Office** • 86000 Hwy. 99 S.  
• Eugene, OR 97405 • (541) 465-6991

**Idaho Falls Regional Office** • 1350 Lindsay Blvd.  
• Idaho Falls, ID 83402 • (208) 524-8750

**Olympia Regional Office** • 5240 Trosper Rd. S.W.  
• Olympia, WA 98512-5623 • (360) 704-1601

**Redmond Regional Office** • 3655 W. Highway 126  
• Redmond, OR 97756 • (541) 548-4015, ext. 3225

**Snohomish Regional Office** • 914 Ave. D  
• Snohomish, WA 98290 • (360) 568-4962

**Spokane Regional Office** • 2410 E. Hawthorne Rd.  
• Mead, WA 99021 • (509) 358-7376

**Walla Walla Regional Office** • 6 W. Rose St., Suite 400  
• Walla Walla, WA 99362 • (509) 527-6241

### Power Business Line Customer Service Centers

**Bend Customer Service Center** • 1011 S.W. Emkay Dr., Suite 211 • Bend, OR 97702 • (541) 318-1680

**Big Arm Customer Service Center** • P.O. Box 40  
• Big Arm, MT 59910 • (406) 849-5034

**Burley Customer Service Center** • 2700 Overland  
• Burley, ID 83318 • (208) 678-9481

**Eastern Area Customer Service Center** • 707 W. Main Ave., Suite 500 • Spokane, WA 99201 • (509) 358-7409

**Richland Customer Service Center** • Kootenai Bldg., Room 215 • North Power Plant Loop • P.O. Box 968  
• Richland, WA 99352 • (509) 372-5771

**Seattle Customer Service Center** • 909 First Ave., Suite 380 • Seattle, WA 98104-3636 • (206) 220-6759

**Western Area CSC** • 905 N.E. 11th Ave. • P.O. Box 3621  
• Portland, OR 97208 • (503) 230-3584

## Transmission System and Federal Dams

May 2005

